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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,572		02/04/2005	Markku Kyytsonen	BERGPAT-7	5127	
36528	7590	09/22/2006		EXAMINER		
STIENN	ION & STI	ENNON	NGUYEN, JIMMY T			
612 W. N	AAIN ST., S	UITE 201			DARRAW ARER	
P.O. BOX	X 1667		ART UNIT	PAPER NUMBER		
MADISC	N, WI 53	701-1667	3725			
				DATE MAIL ED: 00/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	6.							
		Application No. Applicant(s)		L				
		10/516,572	KYYTSONEN, MARK	KU				
	Office Action Summary	Examiner	Art Unit					
		Jimmy T. Nguyen	3725					
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	he correspondence addre	ss				
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS, cause the application to become ABAND.	TON. be timely filed from the mailing date of this comm ONED (35 U.S.C. § 133).	·				
Status								
1)⊠	Responsive to communication(s) filed on <u>14 Al</u>	ugust 2006.						
	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11	, 453 O.G. 213.					
Dispositi	on of Claims	·						
4)🖂	Claim(s) 9-21 is/are pending in the application.							
	4a) Of the above claim(s) <u>18-20</u> is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>9-17 and 21</u> is/are rejected.							
7)	Claim(s) is/are objected to.			·				
8)□	Claim(s) are subject to restriction and/or	r election requirement.						
Applicati	on Papers							
9)🖾	The specification is objected to by the Examine	r.						
	The drawing(s) filed on <u>04 February 2005</u> is/are		cted to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is	objected to. See 37 CFR 1	.121(d).				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Off	fice Action or form PTO-	152.				
Priority u	inder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreign	-	9(a)-(d) or (f).					
	1. Certified copies of the priority documents							
	2. Certified copies of the priority documents	• •		,				
	3. Copies of the certified copies of the prior		eived in this National Sta	ge				
* 9	application from the International Bureau see the attached detailed Office action for a list	· · · · · · · · · · · · · · · · · · ·	sived.					
0	and attached detailed Office action for a list	or the certified copies flot fece	aveu.					
Attachment	Nel							
	e of References Cited (PTO-892)	4) 🔲 Interview Summ	12D/ (PTO: 412)					
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma	il Date					
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Inform 6) Other:	al Patent Application					
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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I (claims 9-17 and 21) in the reply filed on August 14, 2006 is acknowledged; an action on the merits follows.

Information Disclosure Statement

Receipt is acknowledged of the Information Disclosure Statements (I.D.S.), filed December 02, 2004, February 4, 2005, and March 24, 2005, which I.D.S. have been placed of record in the file. The initialed, signed and dated copy of the forms PTO-1449 are attached to this Office action.

Drawings

The drawings are objected to because the lead line of reference number 4;41 as shown in figure 1 is pointed to the bearing housing instead of the roll. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

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consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

In paragraph 24, line 2, numeral "4; 42" appears to be a typo error and it should be changed to --- 4; 43 --- because figure 1 shows the roll 4; 43 is the middlemost intermediate roll that is attached directly to the calender frame 7.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9-17 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 9, lines 11-12, the limitation "between polymer-coated rolls and metal rolls" implies that there are at least four rolls. However, there are only three rolls are being claimed, which are the first roll, the second roll, and the first intermediate roll. Therefore, the limitation "between polymer-coated rolls and metal rolls" renders the claim indefinite.

Regarding claim 9, lines 12-13, the limitation "any" renders the claim indefinite because there is only one roll nip between the first roll and the first intermediate roll.

Regarding claim 9, line 16, the limitation "any" renders the claim indefinite because there is only one roll nip between the last roll and the first intermediate roll.

Regarding claim 11, lines 1-2, it is unclear whether the limitation "each second intermediate roll" is referring to the intermediate roll as claimed in claim 10, line 2 or it is referring to a different intermediate roll. Clarification is required. If it is referring to the same roll, it is suggested that the word "said" be added before the word "each".

Regarding claim 11, lines 3-4, the words "the said rolls" is confusing and it is suggested that the word "the" should be deleted. Additionally, it is unclear of which rolls the applicant is referring to. Clarification is required.

Regarding claim 11, line 3, there is insufficient antecedent basis for the limitation "the own gravity" in the claim.

Regarding claim 12, lines 1-2, there is insufficient antecedent basis for the limitation "the load distribution" in the claim.

Regarding claim 13, line 3, the words "the said rolls" is confusing and it is suggested that the word "the" should be deleted. Additionally, it is unclear of which roll the applicant is referring to. Clarification is required.

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Regarding claim 15, line 3, the words "the said roll" is confusing and it is suggested that the word "the" should be deleted. Additionally, it is unclear of which roll the applicant is referring to. Clarification is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-17, as best understood, and claim 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stotz (US 4,736,678) in view of Holopainen et al. (hereinafter "Holopainen") (WO 01/16424A1).

Regarding claims 9 Stotz discloses a first set of rolls (1a) attached to a first frame (6), the first set of rolls having a first roll 12(1), a last roll (12(3), and a first intermediate roll (1a) (i.e. the next to last roll as shown in figure 1) between the first roll and the last roll, wherein the first roll and the last roll, each having casing (11) which is movable with respect to a portion (13) fixed to the first frame (fig. 1), and each having an internal loading device (3a) with which the casing is movable toward the first intermediate roll (col. 6, lines 2-9), the first intermediate roll being rotatable (i.e. moveable up and down by the adjustment motor (30)) about an axis (at the ref. number (17a) which is fixed with respect to the frame (fig. 1); and a plurality of roll nips is defined between the rolls of the first set of rolls (fig. 1). As to the first and last rolls are polymer coated rolls and the rolls from the first roll to the last roll alternate between polymer-coated rolls

and metal roll, Stotz discloses the rolls from the first roll to the last roll alternate between the rolls having movable jacket (11) and metal roll (fig. 1). Stotz does not disclose the movable jacket is polymer coated. However, the patent to Holopainen, in a calendaring art, teaches a calender having rolls from a first roll (1) to a last roll (10) alternate between rolls having movable jacket (11) and metal rolls (2 and 8) (page 11, lines 14-15), wherein the rolls with the movable jacket are provided with a polymer coating (page 11, lines 12-13) in order to better print quality. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the rolls having movable jacket of Stotz with polymer coating, as taught by Holopainen, in order to better print quality.

Regarding claim 10, Stotz discloses each second intermediate roll (1a) (i.e. the second and third rolls from the top down as shown in figure 1) having an axis (i.e. at its bearing) which is movable with respect to the frame (fig. 1), each second intermediate roll being positioned between the first intermediate roll and the first roll (fig. 1).

Regarding claim 11, Stotz discloses said each second intermediate roll has equipment (17) for lightened its weight.

Regarding claims 12-14, Stotz discloses an additional load (by the elements 3a or 3) to the first roll (12(1)) and an additional load (by the elements 3a or 3) to the last roll (12(3)) (see figure 1), the additional load is brought to the first roll using a loading element (3, 1a) outside of the first roll. Stotz discloses the loading element is a roll (1a).

Regarding claim 15, Stotz discloses the additional load is brought to the first roll using the internal loading device (3a) of the last roll.

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Regarding claims 16 and 17, Stotz discloses that first and last rolls are controlled deflection rolls (col. 5, line 62). The Examiner take Official notice that is it old and well known in the calendaring art that controlled deflection roll is a shoe roll comprises one or more shoe elements located under the casing of the roll as evidenced on page 4, lines 1-5 of the Holopainen reference.

Regarding claim 21, Stotz discloses a frame (6); a first intermediate roll (i.e. the fifth roll from the top down in figure 1) which is rotatable about an axis (17a) which is fixed with respect to the frame (fig. 1); a first roll (12(1)) is movable with respect to a portion (13) fixed to the frame, and the first roll having an internal loading device (3a) with which the casing is movable toward the first intermediate roll (col. 6, lines 2-9); a last roll (12(3)) is movable with respect to a portion (i.e. it stationary beam (13)) fixed to the frame (fig. 1), the last roll having an internal loading device (3a) with which the casing is movable toward the intermediate roll (fig. 1), wherein the first intermediate roll is positioned between the first roll and the last roll (fig. 1); at least one second intermediate roll (i.e. the second roll down from the top in fig. 1) positioned between the first roll and the first intermediate roll (fig. 1), and at least one second intermediate roll (i.e. the sixth roll down from the top) positioned between the first intermediate roll and the last roll, each second intermediate roll having an axis (at the reference number (16)) which is movable with respect to the frame (fig. 1); and a plurality of roll nips (fig. 1) defined between the rolls. As to the first and last rolls are polymer coated rolls and the rolls from the first roll to the last roll alternate between polymer-coated rolls and metal rolls, Stotz discloses the rolls from the first roll to the last roll alternate between the rolls having movable jacket (11) and metal rolls (fig. 1). Stotz does not disclose the movable jacket is polymer coated. However, the patent to

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Holopainen, in a calendaring art, teaches a calender having rolls from a first roll (1) to a last roll (10) alternate between rolls having movable jacket (11) and metal rolls (2 and 8) (page 11, lines 14-15), wherein the rolls with the movable jacket are provided with a polymer coating (page 11, lines 12-13) in order to better print quality. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the rolls having movable jacket of Stotz with polymer coating, as taught by Holopainen, in order to better print quality.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art listed on the attached PTO 892 are cited to show relevant calenders.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy T. Nguyen whose telephone number is (571) 272-4520. The examiner can normally be reached on Mon-Thur 8:00am - 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JTNguyen September 10, 2006

> JIMMY T. NGUYEN EXAMINER—AU372S